This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

Do, et al.

Attorney Docket No:

KCX-694 (19340)

Serial No:

10/686,938

Date:

February 17, 2004

Filed:

October 16, 2003

Art Unit:

1754

Confirmation No:

4580

Our Customer ID:

22827

Title:

Our Account No:

Method For Reducing Odor Using Metal-Modified Silica Particles

Commissioner for Patents U.S. Patent and Trademark Office Post Office Box 1450 Alexandria, VA 22313-1450

Sir:

The following is an Information Disclosure Statement for the captioned patent application, pursuant to 37 CFR Sections 1.56, 1.97, and 1.98.

- 1.[x] Attached hereto is:
 - A list of materials for consideration per Rule 98(a)(1): _5_ page(s)
 - A legible copy of each patent, publication, or other item listed per Rule 98(1)(2), unless not required per Rule b.[x] 98 and/or as indicated on the attached list(s): 147_item(s)
 - For each non-English language item listed, pursuant to Rule 98(a)(3), a concise explanation of the relevance thereof as it is presently understood by the individual designated in Rule 56(c) most knowledgeable about the content of such items:
 - [] Such explanation is provided in the Search Report from a corresponding application enclosed herewith along with any enclosed translation into English.
- This Information Disclosure Statement is being filed [CHECK ONE]: 2.[x]
 - WITHIN THREE MONTHS of the application filing date, national stage date of entry, or along with or after a request for continued examination, OR BEFORE the mailing date of a first Office Action on the merits, which ever event occurs last, WHEREFORE per Rule 97(b) NO filing fee or Rule 97(e) certificate is required.
 - b.[] AFTER the time periods of section 2.a above, but BEFORE a Final Action, Notice of Allowance OR an action that otherwise closes prosecution, WHEREFORE PER Rule 97(c) submitted herewith is [CHECK ONE]:
 - i.[] Certification per Rule 97(e); OR
 - ii[]
 - c.[] AFTER a Final Action OR Notice of Allowance, but BEFORE payment of the issue fee, WHEREFORE per Rule 97(d) submitted herewith is:
 - i. Certification per Rule 97(e); AND
- 3.[] Rule 97(e) Certification; per Rule 97(e), the undersigned certifying party make the following certification statement [CHECK ONE]:
 - That each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement; OR
 - b.[] That no item of information contained in this Information Disclosure Statement was cited in a foreign patent office in a counterpart foreign application and to the knowledge of the undersigned after making a reasonable inquiry, was known to any individual designated in Rule 56(c) more than three months prior to the filing of this statement.

		made by signer per signature below). Name: Address:	Signature:	
4.[x] 5.[x]	now or overpa attache	SIT ACCOUNT AUTHORIZATION: The Comized hereafter, or any fees in addition to the fee(s) the or concerning any paper filed hereafter, and we hereafter relative to this application and the result yment, to our Account No. shown in the heading and. This statement does not authorize charge of the IFICATE OF MAILING: This Information Disciplication.	missioner is hereby authorized to charge a filed, or asserted to be filed, or which should hich may be required under Rules 16-18 (lting official document under Rule 20, or hereof for which purpose a duplicate copie issue fee in this case.	ny fee specifically ould have been filed deficiency only) credit any y of this sheet is
- (-7	COMP	LETE ONE]:		CIECK AND
	a.[x]	First Class Mail Certificate of Mailing under Ru	ıle 8:	
	•	I hereby certify that this correspondence and an the United States Postal Service as first class ma	y referenced attachment and/or fee are beauli in an envelope addressed to the:	ng deposited with
		Commissioner for Patents		
		U.S. Patent and Trademark Office		•
		Post Office Box 1450 Alexandria, VA 22313-1450		:
		Alexandria, VA 22313-1430		٠ •
		on <u>February 17, 2004</u> .	·	
		Sandra S. Perkins (Typed/printed name of person mailing paper or	· fee)	· , ·
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
		(Signature of person mailing paper or fee)		•
	b.[]	"Express Mail" Certificate under Rule 10:		•
;		"Express Mail" - Label No Date of Deposit		
		I hereby certify that this paper and all attachmer Service "Express Mail Post Office to Addressee is addressed to the:	ats and any fee are being deposited with the "service under 37 CFR 1.10 on the date in	e U.S. Postal ndicated above and
		Commissioner for Patents		
		U.S. Patent and Trademark Office Post Office Box 1450		•
		Alexandria, VA 22313-1450.		4
		,		. -
		(Typed/printed name of person mailing paper or		ĺ
	•	(1 ypew printed fiame of person manning paper of	iee)	į
		(6: 4 6 21:	·	_
•		(Signature of person mailing paper or fee)	·	
ADDRI	ESS:	•	DORITY & MANNING, P.A.	; }
	fice Box		By: Christina L. Mangelsen, Patent Age	nt
		th Carolina 29602 4-271-1592	Reg. No: 50,244	•
		I-233-7342	M. S. MAN	
		()	Signature: Mustrum Ville	gslev?
		746	Date: February 17, 2004	
		•	<u>1,001,000</u>	•

Sheet 1 of 5 Attorney Docket Number: Serial Number: Information Disclosure Statement List KCX-694 (19340) 10/686,938 By Applicant(s) Applicant: Under 37 CFR Section 1.98(a) (1) Do, et al. (Use several sheets if necessary) Filing Date: Group Art Unit: October 16, 2003 1754 Confirmation No: 4580

If no indication is made in the column marked "COPY NOTE," the required legible copy of the corresponding item is submitted herewith; otherwise, a copy is not required and/or not submitted, for the following reason(s) [corresponding reason number is listed in "COPY NOTE" column]"

- (1) This item is cumulative, per Rule 98(c)
- (2) A copy of this item was previously cited by or submitted to the U.S. Patent and Trademark Office in:

I atche and Trauchiaik Office III.	•	
USSN	, filed	, or
USSN	, filed	;
Relied on under 35 U.S.C. Secti	on 120, per Rule	98(d)

- (3) Both reasons (1) and (2) apply
- (4) No legible complete copy is possessed, in custody of controlled, or readily available
- (5) Per the U.S. Patent and Trademark Office's waiver of Rule 98(a)(2)(i), the item is a U.S. patent or patent application publication, and the present application was filed after June 30, 2003.

EXAMINER	PATENTEE NAME	PA	TEN	ΓNU	MBE	ER			ISSUE	COPY
INITIALS									DATE	NOTI
	Brandt, et al.	R	E	3	2	6	14	T 9	04/19/1988	. 5
	Kinney	3	3	3	8	9	9	2	08/29/1967	5
	Kinney	3	3	4	1	3	9	4	09/12/1967	5
	Evans	3	4	9	4	8	2	1	02/10/1970	. 5
	Petersen	3	5	0	2	5	3	8	03/24/1970	5
	Hartmann	3	5	ō	2	7	6	3	03/24/1970	5
	Dobo, et al.	3	5	4	2	6	1	5	11/24/1970	5
-	Dorschner, et al.	3	6	9	2	6	†	8	09/19/1972	5
	Matsuki, et al.	3	8	0	2	8	1	7	04/09/1974	5
	Butin, et al.	3	8	4	9	2	4	1	11/19/1974	5
	Suzuki, et al.	3	9	7	1	6	6	5	07/27/1976	5
	Yoshida, et al.	4	0	0	6	0	3	0	02/01/1977	5
	Yoshida, et al.	4	0	7	8	0	2	9	03/07/1978	. 5
	Anderson, et al.	4	1	0	0	3	2	4	07/11/1978	. 5
	Inoue, et al.	4	1	0	1	6	3	8	07/18/1978	5
	Boulton	4	1	4	4	3	7	0	03/13/1979	5
	Appel, et al.	4	3	4	0	5	6	3	07/20/1982	5
	Pedersen, et al.	4	4	6	7	0	1	2	08/21/1984	5
	Byrne, et al.	4	5	7	5	5	5	6	03/11/1986	5
	McFarland, et al.	4	6	0	4	3	1	3	08/05/1986	5
	McFarland, et al.	4	6	5	5	7	5	7	04/07/1987	5
	Barker, et al.	4	7	0	1	2	1	8	10/20/1987	5
	Ota, et al.	4	7	1	5	9	8	3	12/29/1987	5
	Broecker, et al.	4	7	8	0	4	4	8	10/25/1988	5
	Mizukami, et al.	4	7	8	1	8	5	8	11/01/1988	5
	Gamble, et al.	4	7	8	3	2	2	0	11/08/1988	5
	Meyer, et al.	4	7	9	8	6	0	3	01/17/1989	5
	Hubbard, et al.	4	8	0	2	4	7	3	02/07/1989	2 5
	Watanabe, et al.	4	9	0	4	3	0	4	02/27/1990	5
	Hubbard, et al.	4	9	6	9	4	5	7	11/13/1990	5
	Watanabe, et al.	4	9	8	8	5	0	5	01/29/1991	5
	Hubbard, et al.	5	0	2	0	5	3	3	06/04/1991	- 5
	Johnson, et al.	5	0	5	7	3	0	2	10/15/1991	5
	Kubo, et al.	5	0	6	4	4	7	3	11/12/1991	, 5
	Watanabe, et al.	5	1	0	0	5	8	1	03/31/1992	5
	Maeda, et al.	5	1	0	0	7	0	2	03/31/1992	-5
	Moffatt	5	1	3	3	8	0	3	07/28/1992	: 5

Attorney Docket Number: Serial Number: Information Disclosure Statement List KCX-694 (19340) 10/686,938 By Applicant(s) Applicant: Under 37 CFR Section 1.98(a) (1) Do, et al. (Use several sheets if necessary) Filing Date: Group Art Unit: October 16, 2003 1754 Confirmation No: 4580

 	Winnik, et al.		5	1	4	- 15	5	-		7		
	Watanabe, et al.	_	5	1	9		_	5		8 09/08/199	3 5	
	Kavassalis, et al.		5	2	10	+;		1		7 03/23/199:	3 5	
	Theodoropulos	-+	5	2	2			9 9		3 05/11/199	3 5	
	Watanabe, et al.		5	$\frac{2}{2}$	12	19		0 0	`	00/13/177,	3 5	_
	Fare, et al.		5	2		1!		4 9			5	
	Tsugeno, et al		5	$\frac{2}{2}$	2	5		3 7		07/06/1993	5	_
	Okubi, et al.		5	2	3	10		9 5			5	_
	Tsugeno, et al.		5	$\frac{2}{2}$		8		5 1			5	
	Everhart, et al.			$\frac{2}{2}$	8	6					5	
	Subramanian		_	$\frac{2}{2}$	9	4	_ ' '			02/08/1994		_
	Theodoropulos	+		$\frac{2}{2}$		2			8	03/08/1994	5	_
	Brunson	1			9	4			7	03/15/1994		
	Okubi, et al.	- 5		3	2	2	0		1	06/21/1994		\dashv
	Takagi, et al.	_		3	3	2	4		2	07/26/1994	5	\dashv
	Abe, et al.	_ 5		3	3	8	7		_ 3	08/16/1994	5	ᅱ
	Georger, et al.	5		3	4	2	8		_ 6	08/30/1994	5	\dashv
	Pike, et al.	5		3	5	0	6		4	09/27/1994	5	┥
	Hubbard, et al.	5		3	8	2	4	0	0	01/17/1995	5	\dashv
	Law, et al.	5			8	3	4	5	0	01/24/1995	5	ᅱ
	Ando, et al.	5	- 3		9	7	6	6	7	03/14/1995	5	\dashv
	Spencer, et al.	5	14	_ ,	0	7	6	0	0	04/18/1995	5	\dashv
	Trinh, et al.	5	4		2	0	0.	9	0	05/30/1995	5	\dashv
	Tsugeno, et al.	5	4		2	9	6	2	8	07/04/1995	5	\dashv
	Spencer, et al.	5	4	_	5	8	8	6	4	10/17/1995	5	\dashv
	Subramanian, et al.	5	4	_	8	7	9	3	8	01/30/1996	-5	\dashv
	Yamazaki	5	4	-	8	8	1	2	6	01/30/1996		\dashv
	Ando, et al.	5	5		3	8	5	4	8	07/23/1996	5	-
	Reese, et al.	5	5		4	7	6	0	7	08/20/1996	5	\dashv
	El-Shall, et al.	5	5	_	5	3	6	0	8	09/10/1996	5	4
	Subramanian, et al.	5	5			0	6	5	5	12/03/1996	5	-
	Barthel, et al.	5	5	_		3	2	\perp_1	9	12/10/1996	5	┥
	Watanabe, et al.	5	5			1	7	9	7	01/07/1997	5	1
	Inatani, et al.		5			7	5	1	2	01/28/1997	5	1
	Bishop, et al.	5	6	Ţ		1	1	9	8	08/26/1997	5	1
	Sacripante, et al.	5	16	4		9	1	3	8	10/21/1997	5	1
	Kuhn, et al.	5	6	7		9	7	2	4	10/21/1997	5	1
	Baird, et al.	5	7	7		3	2	2	7	06/30/1998	5	ł
	Calvo Salve, et al.	5	8	1		3	3	9	8	09/29/1998	5	1
	Everhart, et al.	5	8	4		3	5	0	9	12/01/1998	5	1
	Kamoto, et al.	5	8	5		5]	7	8	8	01/05/1999	5	ł
	Suzuki, et al.	5	8	8			1	7	6	03/09/1999	5	ł
	Tasaki, et al.	5	8	8			3	0	9	03/09/1999	5	ĺ
	Fujiki, et al.	5	9	0	2	_	2	2	6	05/11/1999	5	
	Desai, et al.	5	9	0	_ 5		1	0	1	05/18/1999	5	
	Grandfils, et al.	5	9	1	6		5	9	6	06/29/1999	5	
	Shell, et al	5	9	6	2		5	6	6	10/05/1999	5	
	•					,	-				ا د	

Attorney Docket Number:

Serial Number:

KCX-694 (19340)

By Applicants:

Under 37 CFR Section 1.98(a) (1)

(Use several sheets if necessary)

Filing Date:

October 16, 2003

Confirmation No:

4580

 Guarracino, et al.	6	3	7	6	17	4	1	04/23/2002	-5
 Reeves, et al.	6	3	8	7	4	9	5	05/14/2002	-5
Ota, et al.	6	3	9	8	8	2	7	06/04/2002	- 5
Wellinghoff, et al.	6	4	1	0	7	6	5	06/25/2002	
Blackstock, et al.	6	4	2	7	6	9	3	08/06/2002	5
Woltman, et al.	6	4	3	3	2	4	13	08/13/2002)	- 5
Kasai, et al.	6	4	4	0	1	8	7	08/27/2002	
Furuya, et al.	6	4	6	1	17	3	5	10/08/2002	
Sakaguchi, et al.	6	4	6	8	5	0	0	10/22/2002	
Tan, et al.	6	5	4	8	2	6	4	04/15/2003	
Maeda, et al.	. 6	5	6	2	4	4	1	05/13/2003	-5-
Raymond, et al.	6	4	7	8	5	2	1	06/17/2003;	5
							1		

EXAMINER INITIALS	APPLICANT'S NAME		BLI	CAT	ION	NUN	PUBLICATION DATE	COPY		
	Nohr, et al.	0	0	2	1	9	8	3	01/30/2003	5
	Kolb, et al.	0	1	2	8	3	3	6	09/12/2002	5
	Carter, et al.	0	1	4	2	9	3	7	10/03/2002	5
	Nohr, et al.	0	1	4	9	6	5	6	10/17/2002	5
	Cramer, et al.	0	1	5	0	6	7	8	10/17/2002	- 5
	MacDonald	0	2	0	3	0	0	9	10/30/2003	- 5

EXAMIN	FR	COUNTRY	ח	חרו	IM	ENT	ר או	TN/I	SEE	, , , , , , , , , , , , , , , , , , , 	PUBLICATION	TTD A 3	TOT	TION	CODY
INITIAI				00.	J1 V 1	DI 1	. 141) IATI	יוטני			TRAI	COPY		
23.17.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	<i></i>										DATE				NOTE
						•						YES	NO	N/A	
		WO	0	0	0	3	7	9	7	A1	01/27/2000	125	X	IVA	
		EP	0	1	0	3	2	1	4	B1	03/21/1984			X	
		WO	0	1	0	6	0	5	4	Al	01/25/2001			X	
		WO	0	2	0	5	5	1	1	5	07/18/2002			X	
·			_							A1					
		EP	0	2	8	2	2	8	7	B2	09/14/1988			X	
		EP	0	3	3	9	4	6	1	BI	11/02/1989			X	
		EP	0	3	7	6	4	4	8	B1	07/04/1990			X	
		EP	0	3	8	9	0	1	5	A2	09/26/1990			X	
			٠,							A3	·				
		EP	0	3 ₄	. 8	9	0	2	3	A2	09/26/1990			X	
										A3					
		EP.	0	4	8	3	5	0	0	A1	05/06/1992			X	
		EP	0	7	4	9	2	9	5	B1	12/27/1996			X	
		EP	0	9	7	2	5	6	3	Al	01/19/2000			X	
		WO	9	8	2	0	9	1	5	Al	05/22/1998		X		
		WO	9	9	4	7	2	5	2	A3	09/23/1999			X	

^{*&}quot;NO" means that no copy of an English language translation is within the possession, custody, or control of, or is readily available to any individual designated in Rule 56(c).

(Rev. 5/92)		DM-10/0 Sheet 4 of
Information Disclosure Statement List By Applicant(s) Under 37 CFR Section 1.98(a) (1)	Attorney Docket Number: KCX-694 (19340)	Serial Number: 10/686,938
Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary)	Applicant: Do, et al. Filing Date: October 16, 2003 Confirmation No:	Group Art Unit;
EXAMINER	4580	<u>.</u> :

[H Y A 1 / m +		1	
EXAMIN			
INITIALS			
	Article Committee Pertinent Pages Date & Plant		COPY
1	Article - Saponins and Sapogenins. VIII.	Publication	NOTE
1			
1 1	Derivatives, C. R. Noller, J. Am. Chem.		
		1.	
1 1	Article - Synthagia of	:	
1 1	Article - Synthesis of porous Silica with help		
1 1	from cyclodextrin aggregates, Markus Antonietti May Plant	1	
1 1			
<u> </u>	und, Germany, 1 page	}.	
1 1	Article - Immobiliant	1 3	
1 1	on Mesoporous MCM-41 and Amorphous Silicas for Photocophylic Control of the Cont		_
1	Silicas for Photocatalytic Oxidation of Cycloalkanes with Mylic Oxidation of	1	
1	Cools II Photocatalytic Oxidation of	1 .	
}	Cycloalkanes with Molecular Oxygen, Andrea Maldotti Alexandra Mygen,	1	
1	Andrea Maldotti, Alessandra Molinari, Graziano Varani, Massandra Molinari,	1 .	
1	Graziano Varani, Maurizio Lenarda, Loretta Storaro, Franca Rigi, Poimer I. 200		
1	Storaro, Franca Pici D. Lenarda, Loretta		
1	Storaro, Franca Bigi, Raimondo Maggi, Alessandro Mazzacani, and Giovanni Sartori, Journal of Catalysis, Vol. 200, 200	1 2	
I	Journal of G. And Giovanni Sartori	ł	
- 1	Journal of Catalysis, Vol. 209, 2002, pp.	1 .	
	210-216 209, 2002, pp.	1.	
ſ	Article – Fe-MCM-41 for Selective	1 '	
- 1			
1	Peroxide, Qinghong Zhang, Ye Wang,	[
1	Satoko Handi Bang, Ye Wang.	·	1
1			- 1
	Katsuomi Takehira, The Chemical Society of Japan, Chemistry Letters 2001	· .	{
	Japan, Chemistry Letters 2001, pp. 946-947	!	- 1
1	Article – Mesoporous Sieves with Unified Hybrid Ingramic/Operators	1 .	1
j	Hybrid Inorganic/Organic Frameworks, Brian J. Melde Brian T. Frameworks,		
. [Brian J. Melde, Brian T. Holland,	3	
1	Christon T. Holland,	1 :	- 1
1 ,			- 1
1 1	Chem. Mater., Vol. 11, No. 11, 1999, pp.	:	
	3302-3308		- 1
1 1	Article - From Cyclodostal		- 1
	Article - From Cyclodextrin Assemblies to Porous Materials by Silica Templating, Sebastian Polars Research		1
	Sebastian Polam D. Sebastian P. Sebastia	-	
1 1	Sebastian Polarz, Bernd Smarsly, Lyudmila Bronstein, and Marky, A.	1 '	- 1
1 1	Bronstein, and Markus Antonietti, Angew. Chem. Int., Vol. 40, No. 23, 2004.	1 :	- 1
1 1	Chem. Int., Vol. 40, No. 23, 2001, pp. 4417-	':	1
	4421 -, -001, pp. 441/-	i	- 1
	Paper – Uniform Deposition of Ultrathin	1	- 1
	Polymer Films on the Surfaces of Al ₂ O ₃		
1	Nanoparticles by Districtor of Al ₂ O ₃		
1	Dongly Shi G W a Plasma Treatment.	1	1
	Oonglu Shi, S. X. Wang, Wim J. van Ooij, L. M. Wang, Jiangang Thao and The	1	1
	M. Wang, Jiangang Zhao, and Zhou Yu,	1	- 1
1 15		- 1 .	- 1
, , , , , , , , , , , , , , , , , , ,	fichigan has 2000	ı	1

(Re 5/92)	Attorney Docket Number:	Serial Number:				
information Disclosure Statement List	KCX-694 (19340)	10/686,938				
By Applicant(s)	Applicant:					
Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary)	Do, et al.					
	Filing Date:	Group Art Uni				
	October 16, 2003	1754				
	Confirmation No:					
	4580					

Article – Nanoparticles based on polyelectrolyte complexes: effect of structure and net charge on the sorption capability for solved organic molecules, HM. Buchhammer, G. Petzold, and K. Lunkwitz, Colloid Polym. Sci., Vol. 278, 2000, pp. 841-847	
Article – Adsorption of Gases in Multimolecular Layers, Stephen Brunauer, P.H. Emmett, and Edward Teller, The Journal of the American Chemical Society, Vol. 60, February 1938, pp. 309-319 Article – Study of the uses thermal	: